

Figure 1: (Prior Art) Tandem Connection

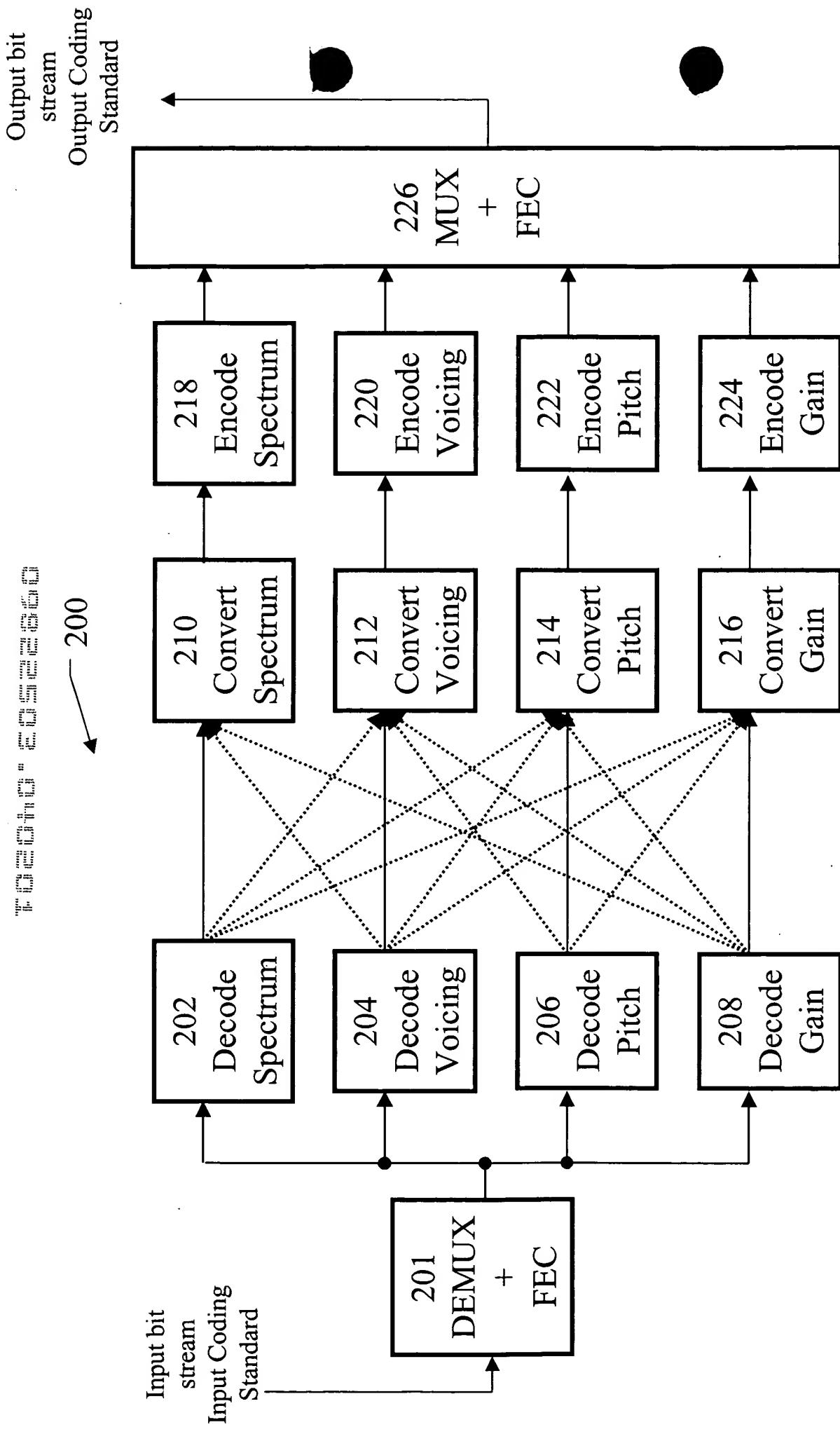


Figure 2: Universal Transcoder

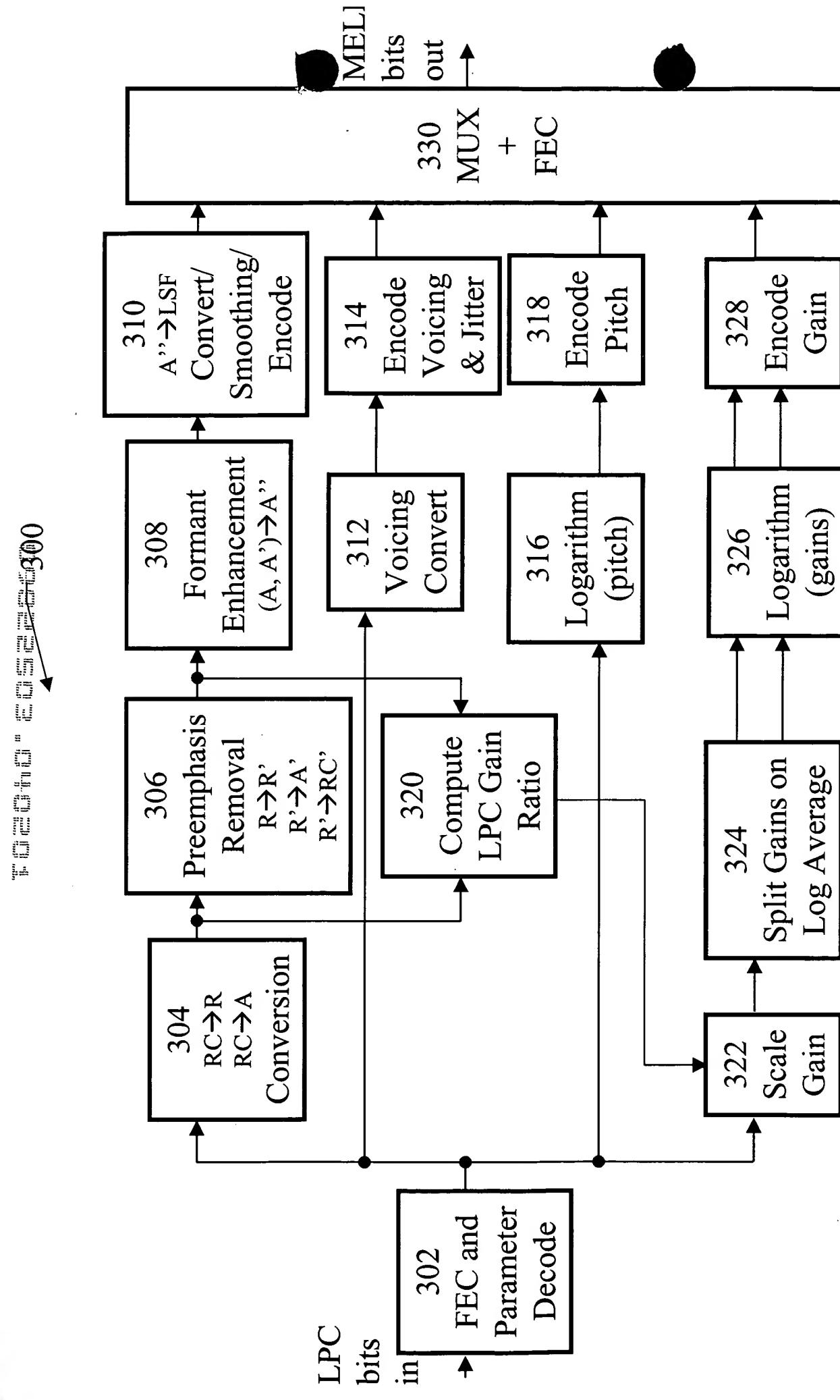


Figure 3: LPC to MELP Transcoder

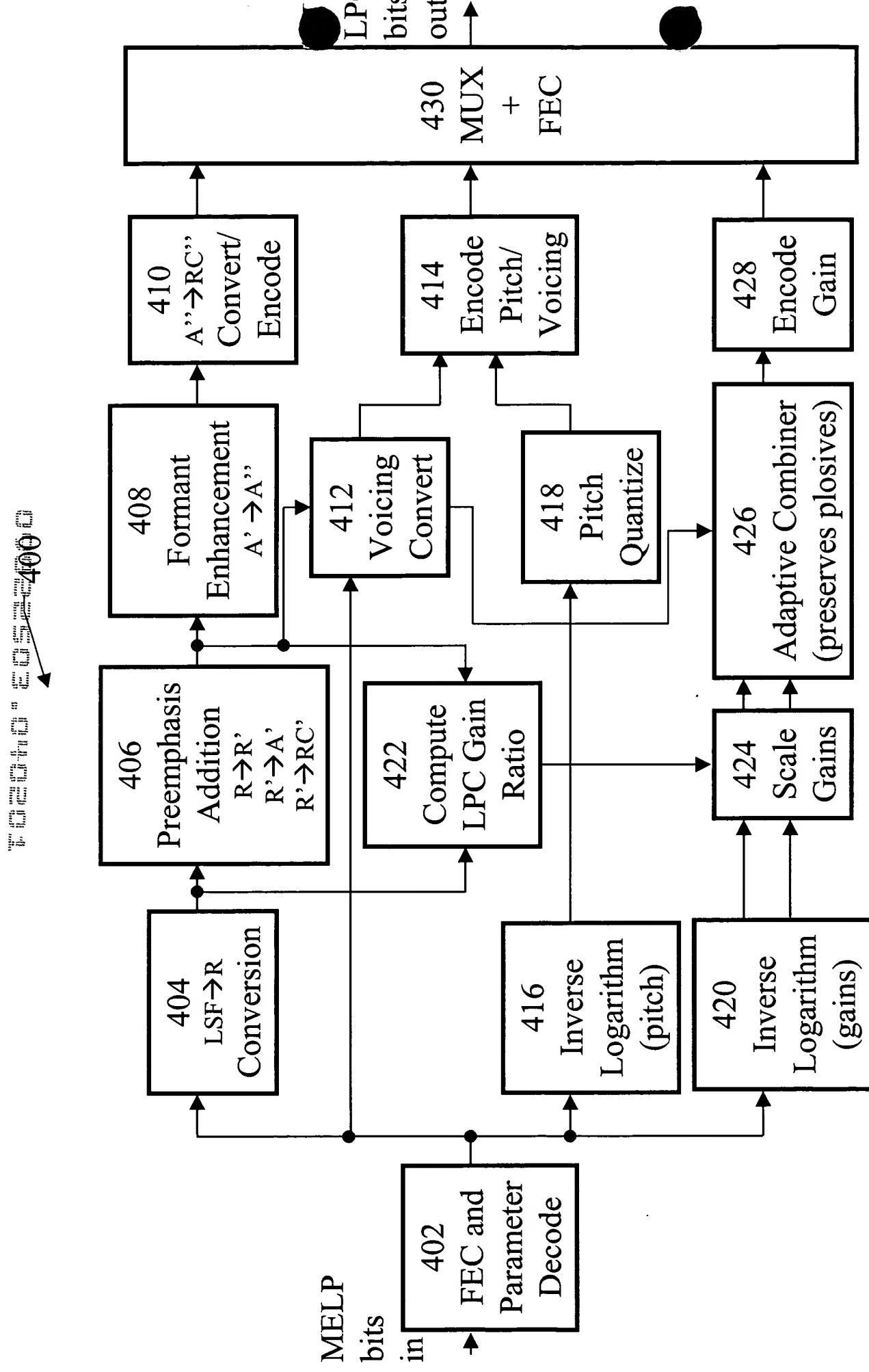


Figure 4: MELP to LPC-10 Transcoder

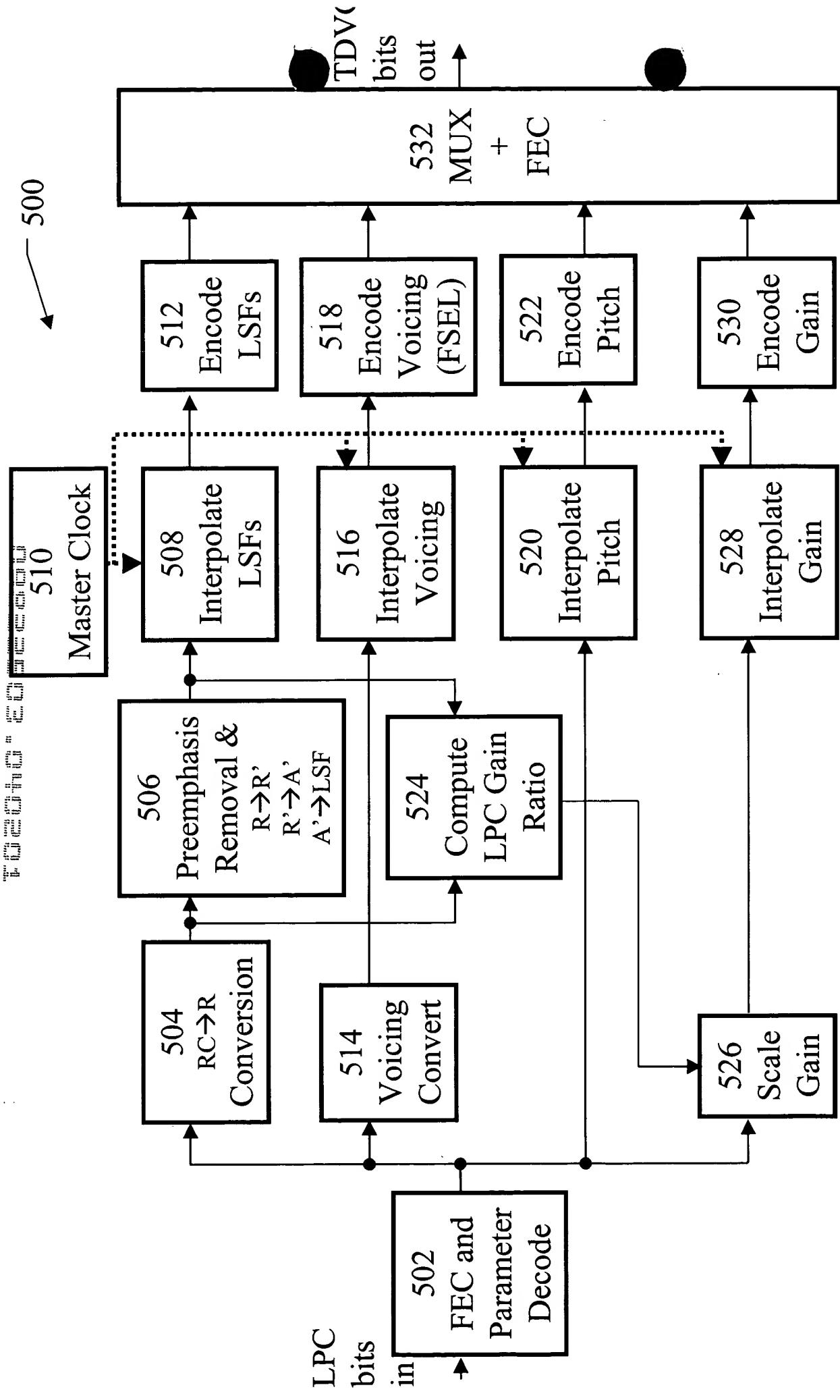


Figure 5: LPC-10 to TDVC Transcoder

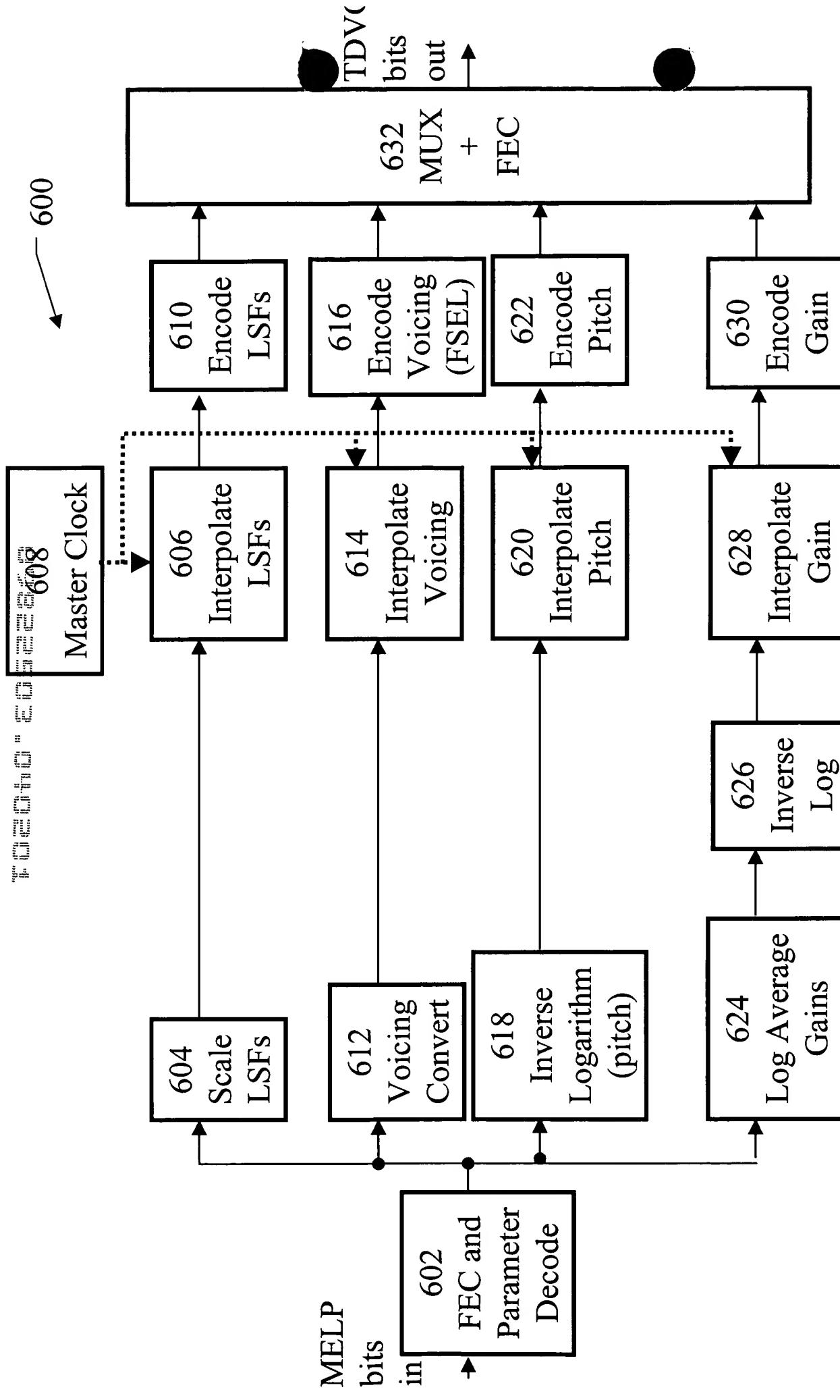


Figure 6: MELP to TDVC Transcoder

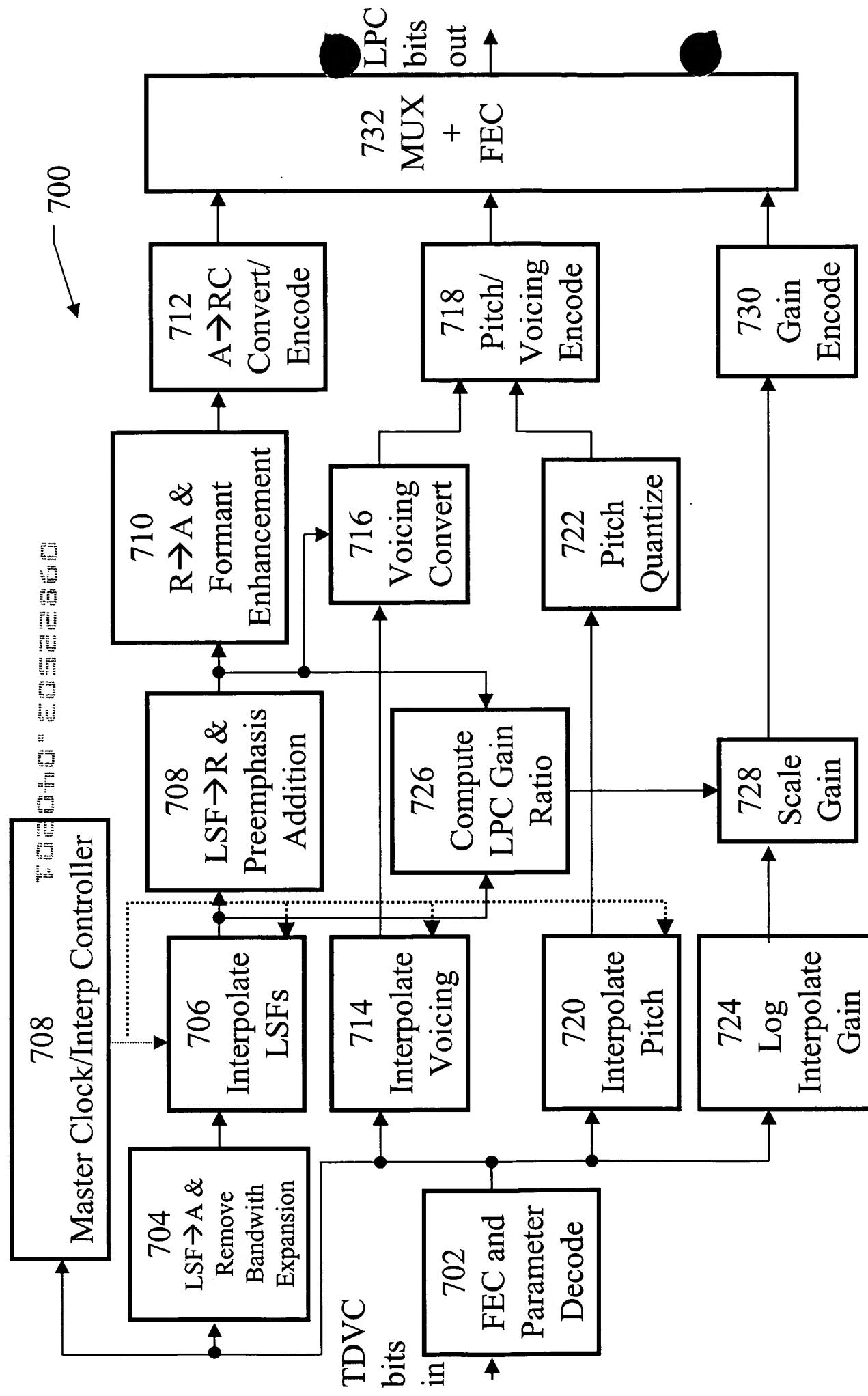


Figure 7: TDVVC to LPC-10 Transcoder

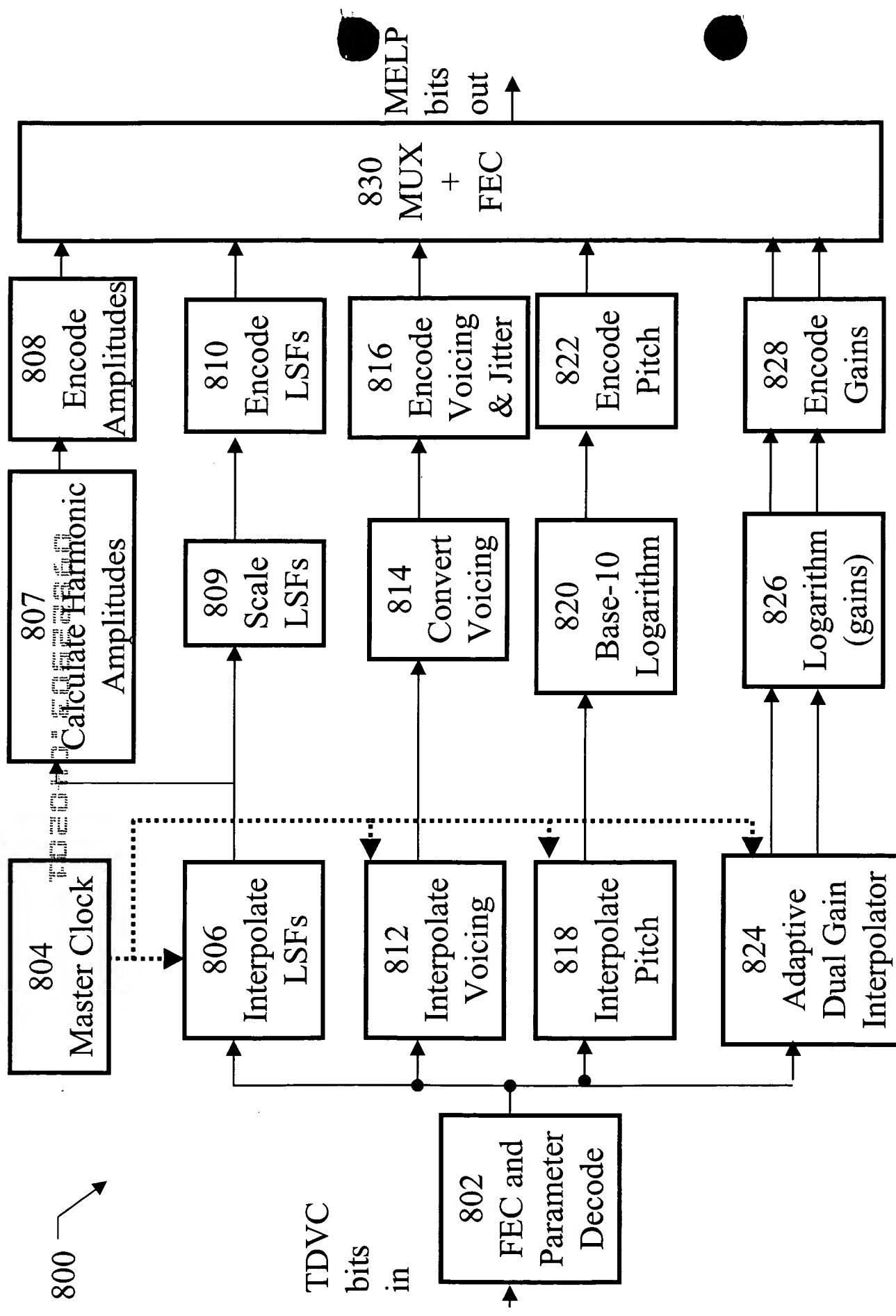


Figure 8: TDVVC to MELP Transcoder

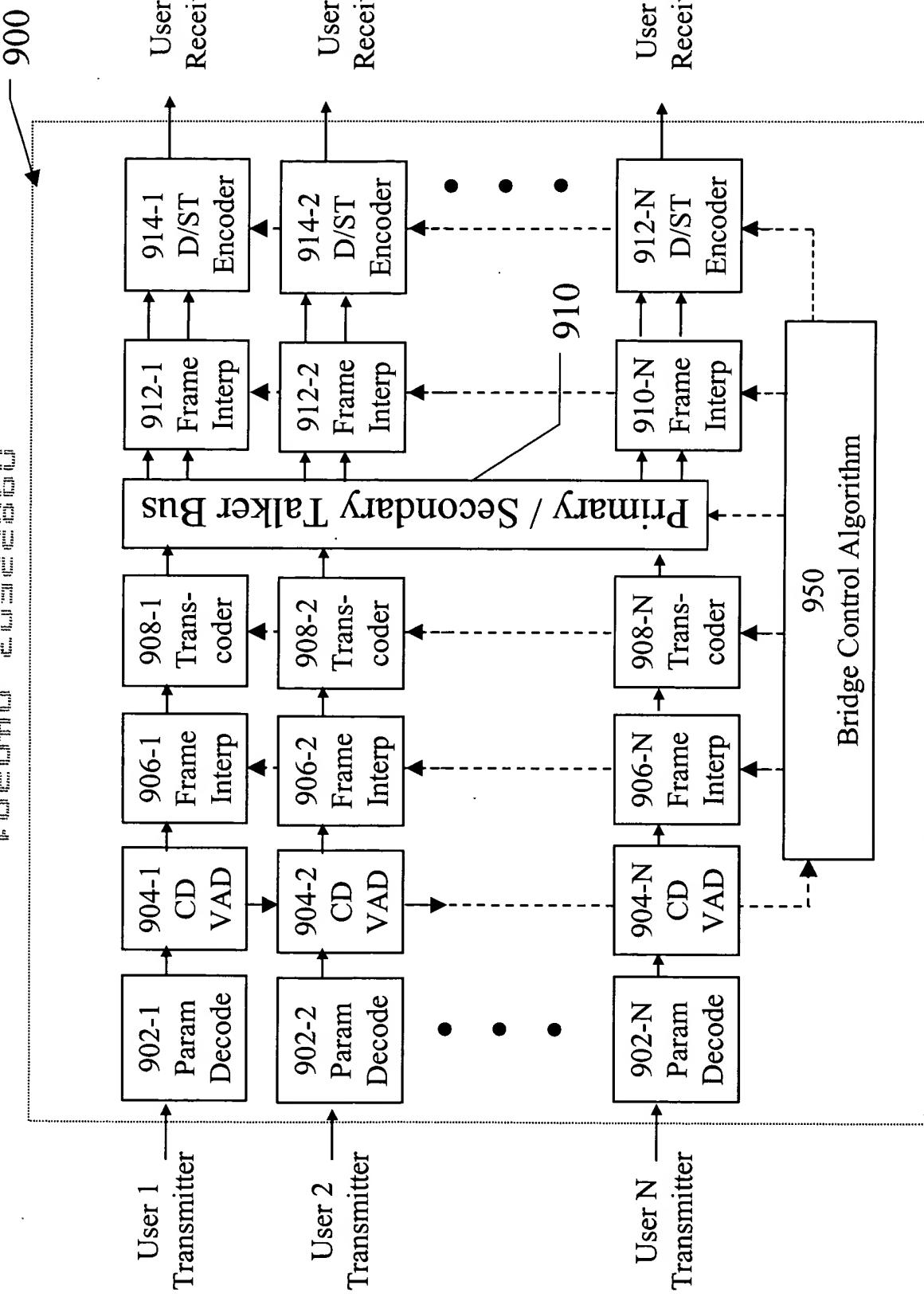


Figure 9: Compressed Domain Conference Bridge

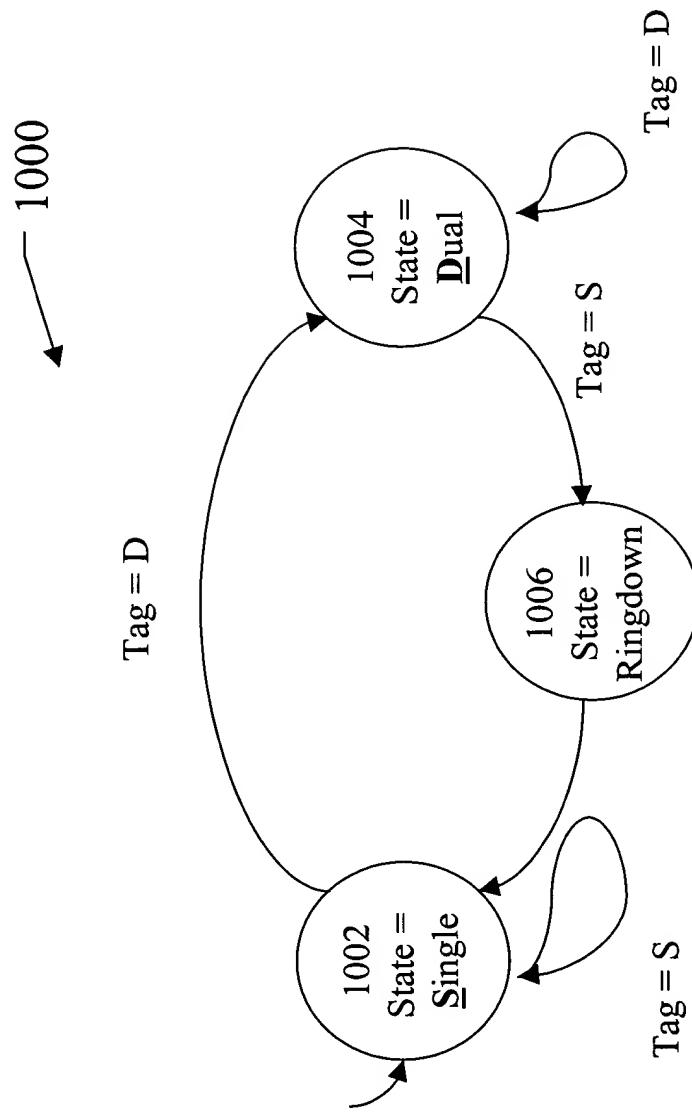


Figure 10: Dual Synthesizer State Diagram

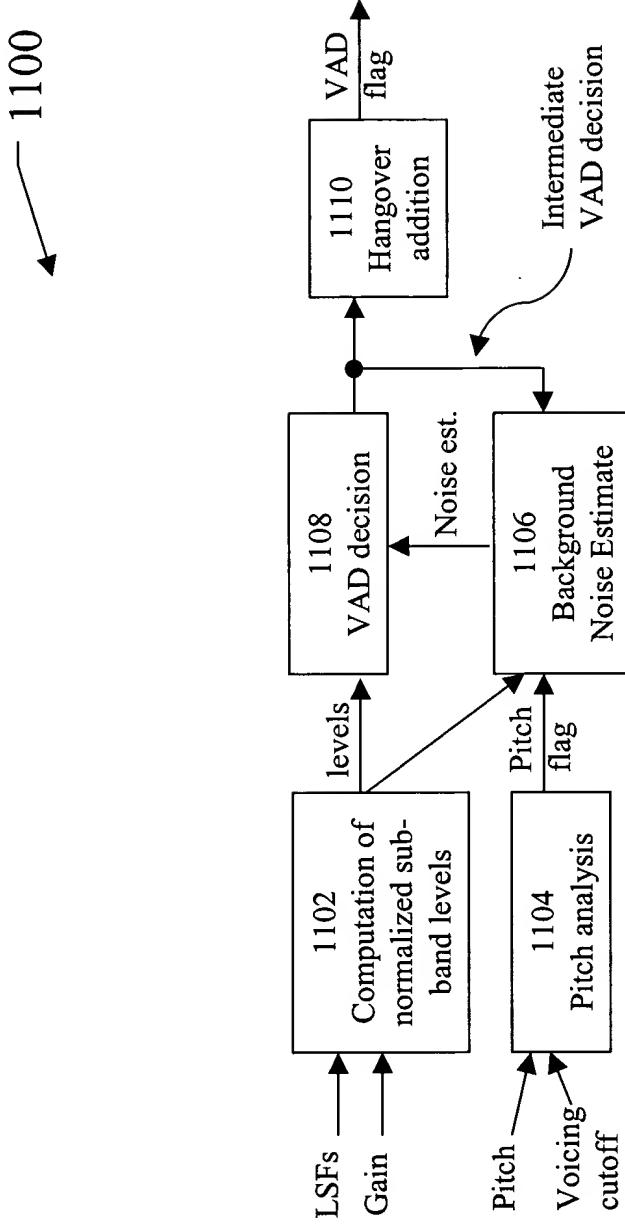


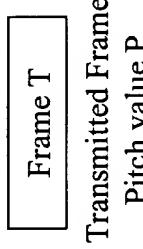
Figure 11: Compressed Domain Voice Activation Detector (CDVAD)

4 bit quantizer table
Frame 2

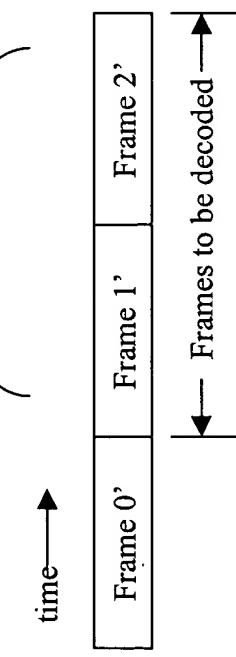
Frame 0
Frame 1



1202



Frame 0'
Frame 1'
Frame 2'



time

Figure 12B

L0
L3
L6
L9
L12
L16
L20
L24
L28
D-3
D-1
D-0
D+1
D+2
D+3
L1
L2
L4
L5
L6
L7
L8
L9
L10
L11
L12
L13
L14
L15
L16
L17
L18
L19
L20
L21
L22
L23
L24
L25
L26
L27
L28
L29
L30
L31

Transmitted Frame
Pitch value P

Figure 12A